

Notice of Allowability

Application No.

10/028,413

Examiner

Tesfaldet Bocure

Applicant(s)

WALTHO ET AL.

Art Unit

2611

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 2/27/06.
2. ☒ The allowed claim(s) is/are 1-38.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☒ Other Approved Replacement Drawings.

TESFALDET BOCURE
PRIMARY EXAMINER

REASONS FOR ALLOWANCE

1. The following is an examiner's statement of reasons for allowance: The claimed subject matter in claims 1-38 is allowable because the arts of records fail to teach or fairly suggest the claimed "an apparatus comprising an encoder (claimed decoder in claim 19) to receive and to encode (decode in claim 19) a data word, wherein a power spectral density of emitted RF energy of an encoded word when transmitted across a data transmission bus is to be lowered across a specific frequency band relative to a power spectral density of the data word(see figures 6 and 7), the specific frequency band corresponding to an operating frequency of a wireless receiver, and in combination with the claimed data transmission bus and decoder in claims 1,11,15,19,23,25,31 and 37."

Conclusion

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tesfaldet Bocure whose telephone number is (571) 272-3015. The examiner can normally be reached on Mon-Thur (7:30a-5:00p) & Mon.-Fri (7:30a-5:00p).

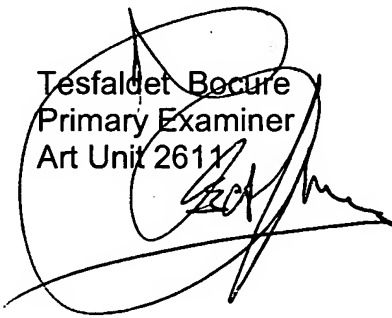
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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jayanti (Jay) Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

T.Bocure

Tesfaldet Bocure
Primary Examiner
Art Unit 2611





Replacement Sheet

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App JS
11/10/06

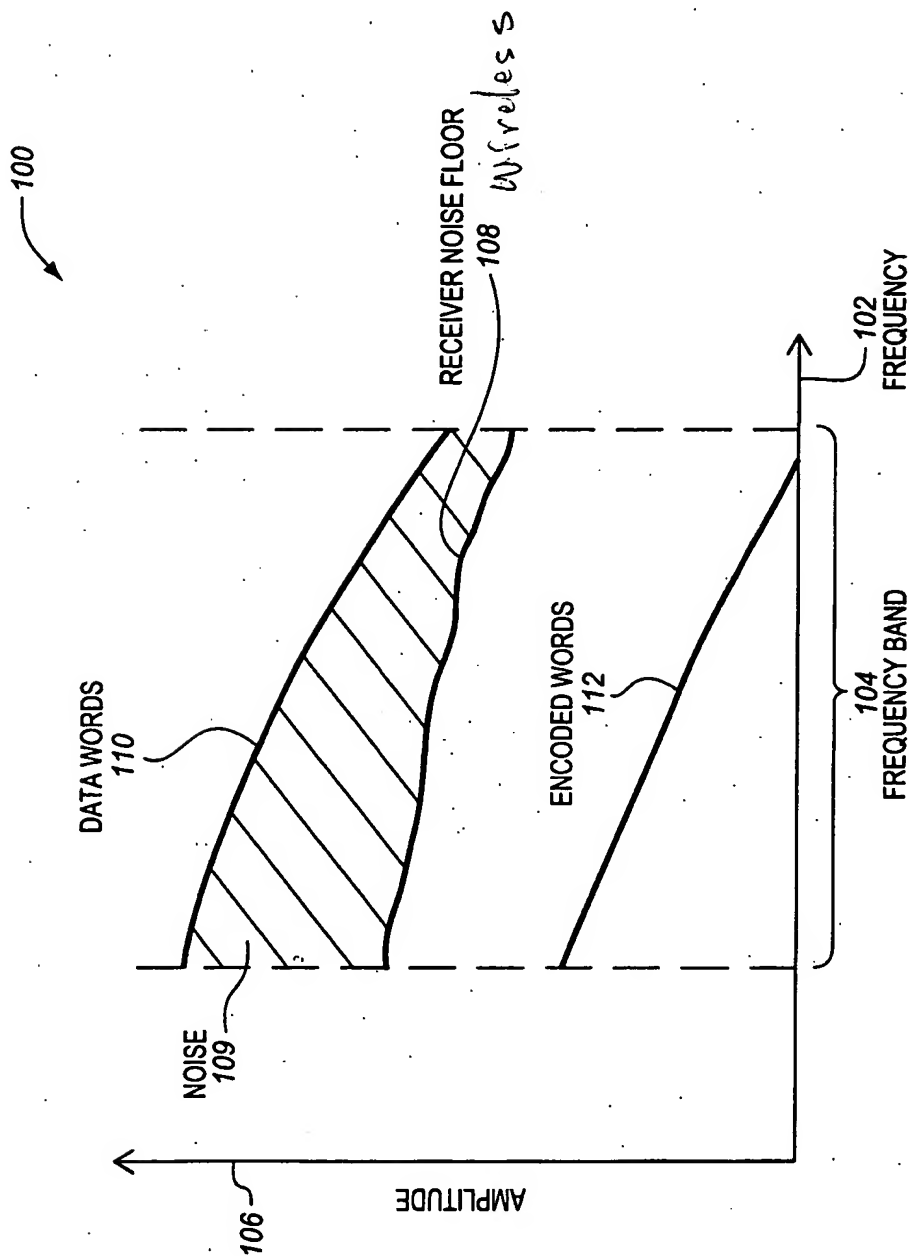
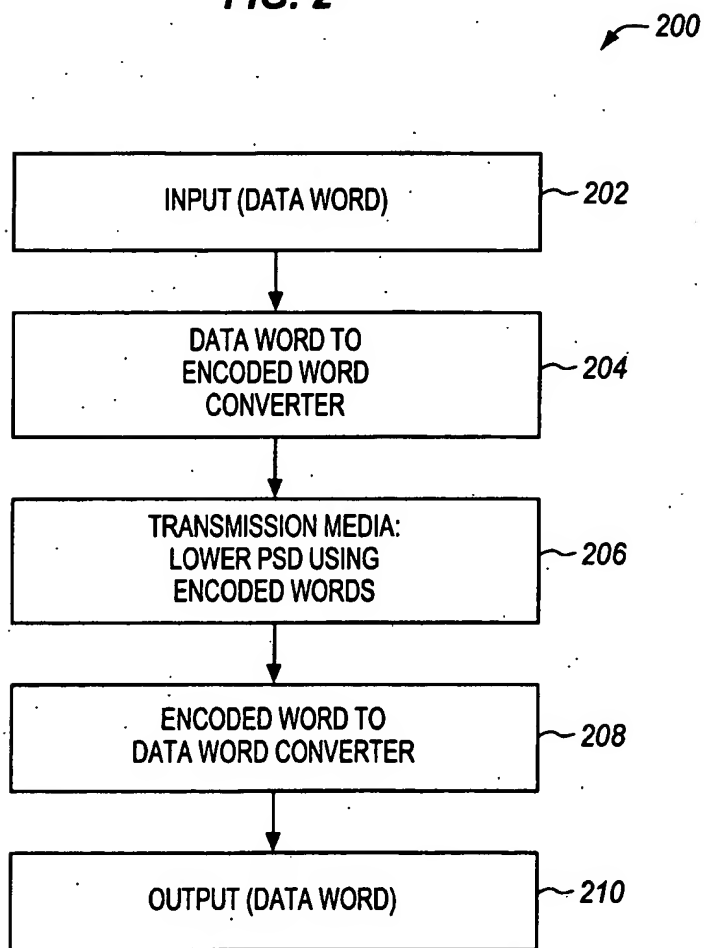


FIG. 1

Replacement Sheet

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FIG. 2



Replacement Sheet

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300

4-BIT DATA WORDS				6-BIT BALANCED ENCODED WORDS					
0	0	0	0	0	0	1	1	1	1
0	0	0	1	0	0	1	0	1	1
0	0	1	0	0	1	0	1	1	1
0	0	1	1	0	1	1	0	1	1
0	1	0	0	0	1	1	1	0	0
0	1	0	1	0	1	1	0	1	0
0	1	1	0	0	1	1	0	1	0
0	1	1	1	0	1	1	1	0	0
1	0	0	0	1	0	1	1	0	1
1	0	0	1	1	0	0	1	1	0
1	0	1	0	1	0	1	0	0	1
1	0	1	1	1	0	1	0	1	0
1	1	0	0	1	0	1	1	0	0
1	1	0	1	1	1	0	0	1	0
1	1	1	0	1	1	0	0	1	0
1	1	1	1	1	1	0	1	0	0

302

304

306

306a

FIG. 3

Replacement Sheet

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400

7-BIT DATA WORDS		9-BIT ENCODED WORDS
406	0100111	406a 011001011
408	1111111	408a 110110100
410	1001110	410a 100111100

FIG. 4A

Replacement Sheet

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FIG. 4B

7-BIT DATA WORDS							9-BIT ENCODED WORDS								
0	0	0	0	0	0	0	0	0	1	0	0	1	0	1	1
0	0	0	0	0	0	1	0	0	0	1	1	0	1		
0	0	0	0	0	1	0	0	0	1	0	0	1	1		
0	0	0	0	0	1	1	0	0	1	0	1	0	1		
0	0	0	0	1	0	0	0	0	1	0	1	0	1	1	0
0	0	0	0	1	0	1	0	0	1	0	1	1	0	0	1
0	0	0	0	1	1	0	0	0	1	0	1	1	0	1	0
0	0	0	0	1	1	1	0	0	1	0	1	1	0	1	1
0	0	0	1	0	0	0	0	0	1	0	1	1	1	0	0
0	0	0	1	0	0	1	0	0	1	1	0	0	0	1	1
0	0	0	1	0	1	0	0	0	1	1	0	0	1	0	1
0	0	0	1	0	1	1	0	0	1	1	0	0	1	1	0
0	0	0	1	1	0	0	0	0	1	1	0	1	0	0	1
0	0	0	1	1	0	1	0	0	1	1	0	1	0	1	0
0	0	0	1	1	1	0	0	0	1	1	0	1	0	1	1
0	0	0	1	1	1	1	0	0	1	1	0	1	1	0	0
0	0	1	0	0	0	0	0	0	1	1	0	1	1	0	1
0	0	1	0	0	0	1	0	0	1	1	0	1	1	1	0
0	0	1	0	0	1	0	0	0	1	0	0	1	1	0	1
0	0	1	0	0	1	1	0	0	1	0	1	0	1	0	1
0	0	1	0	1	0	0	0	0	1	0	0	1	1	0	0
0	0	1	0	1	0	1	0	0	1	1	0	0	1	0	1
0	0	1	0	1	1	0	0	0	1	1	0	1	0	1	1
0	0	1	0	1	1	1	0	0	1	1	0	1	0	1	1
0	0	1	1	0	0	0	0	0	1	0	0	1	0	1	0
0	0	1	1	0	0	1	0	0	1	0	0	1	1	0	0
0	0	1	1	0	1	0	0	0	1	0	0	1	1	1	0
0	0	1	1	0	1	1	0	0	1	0	1	0	0	1	0
0	0	1	1	1	0	0	0	0	1	0	1	0	1	0	1
0	0	1	1	1	1	0	0	0	1	0	1	1	0	0	0
0	0	1	1	1	1	1	0	0	1	0	1	1	0	1	0
0	1	0	0	0	0	0	0	0	1	1	0	0	1	0	0
0	1	0	0	0	0	1	0	0	1	1	0	0	1	1	1
0	1	0	0	0	1	0	0	0	1	1	0	1	0	0	0
0	1	0	0	0	1	1	0	0	1	1	0	1	0	1	0
0	1	0	0	1	0	0	0	0	1	0	0	1	0	0	1
0	1	0	0	1	1	0	0	0	1	0	0	1	0	1	0
0	1	0	0	1	1	1	0	0	1	0	0	1	0	1	1

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FIG. 4C

7-BIT DATA WORDS							9-BIT ENCODED WORDS								
0	1	0	1	0	0	0	0	1	1	0	0	1	1	0	0
0	1	0	1	0	0	1	0	0	1	1	0	0	1	1	0
0	1	0	1	0	1	0	0	0	1	1	1	0	1	1	0
0	1	0	1	0	1	1	0	0	1	1	0	0	0	0	1
0	1	0	1	1	0	0	0	0	1	1	0	0	0	1	0
0	1	0	1	1	0	1	0	0	0	1	0	0	0	1	1
0	1	0	1	1	1	0	0	0	0	1	0	1	0	0	0
0	1	0	1	1	1	1	0	0	0	1	0	1	0	1	0
0	1	1	0	0	0	0	0	0	1	1	0	1	0	1	0
0	1	1	0	0	0	1	0	0	1	1	0	0	0	1	0
0	1	1	0	0	1	0	0	0	1	1	0	1	0	1	0
0	1	1	0	0	1	1	0	0	0	1	0	0	0	1	1
0	1	1	0	1	0	0	0	0	1	0	1	0	1	0	1
0	1	1	0	1	0	1	0	0	0	1	0	1	1	0	0
0	1	1	0	1	1	0	0	0	0	1	0	1	1	1	0
0	1	1	0	1	1	1	0	0	0	1	1	0	0	0	1
0	1	1	1	0	0	0	0	0	1	1	0	1	0	1	0
0	1	1	1	0	0	1	0	0	0	1	1	0	1	1	0
0	1	1	1	0	1	0	0	0	0	1	1	1	0	0	0
0	1	1	1	0	1	1	0	0	0	1	1	1	0	1	0
0	1	1	1	1	0	0	0	0	1	0	0	0	0	1	1
0	1	1	1	1	0	1	0	0	0	1	0	0	1	0	1
0	1	1	1	1	1	0	0	0	0	1	0	0	1	1	0
0	1	1	1	1	1	1	0	0	0	1	0	1	0	0	1
1	0	0	0	0	0	0	0	0	1	0	0	1	0	1	0
1	0	0	0	0	0	1	0	0	0	1	0	1	0	1	1
1	0	0	0	0	1	0	0	0	0	1	0	1	1	0	0
1	0	0	0	0	1	1	0	0	0	1	0	1	1	0	1
1	0	0	0	1	0	0	0	0	0	1	0	1	1	1	0
1	0	0	0	1	0	1	0	0	0	1	1	0	0	0	1
1	0	0	0	1	1	0	0	0	0	1	1	0	0	1	0
1	0	0	0	1	1	1	0	0	0	1	1	0	0	1	0
1	0	0	0	1	1	1	1	0	0	1	1	0	0	1	1
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1	0	0	1	0	0	1	0	0	0	1	0	1	0	1	0
1	0	0	1	0	1	0	0	0	0	1	1	0	1	1	0
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1	0	0	1	1	1	0	0	0	0	1	1	1	1	0	0
1	0	0	1	1	1	1	0	0	0	1	0	0	0	1	0
1	0	1	0	0	0	0	0	0	0	1	0	0	1	1	0
1	0	1	0	0	0	1	0	0	0	1	0	0	0	1	0
1	0	1	0	0	1	0	0	0	0	1	0	1	0	1	0
1	0	1	0	0	1	1	0	0	0	1	0	1	1	1	0
1	0	1	0	1	0	0	0	0	0	1	1	0	0	0	0
1	0	1	0	1	0	1	0	0	0	1	1	1	0	0	1
1	0	1	0	1	1	0	0	0	0	1	1	1	0	1	0
1	0	1	0	1	1	1	0	0	0	1	1	1	1	0	0
1	0	1	1	0	0	0	0	0	0	1	0	0	0	1	0
1	0	1	1	0	0	1	0	0	0	1	0	0	1	0	1
1	0	1	1	0	1	0	0	0	0	1	1	0	1	1	0
1	0	1	1	0	1	1	0	0	0	1	1	1	0	0	0
1	0	1	1	0	1	1	1	0	0	1	1	1	1	0	1
1	0	1	1	1	0	0	0	0	0	1	1	1	1	0	0

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FIG. 4D

7-BIT DATA WORDS								9-BIT ENCODED WORDS								
1	0	1	0	1	1	1		1	0	1	0	1	0	0	0	1
1	0	1	1	0	0	0		1	0	1	0	1	0	0	1	0
1	0	1	1	0	0	1		1	0	1	0	1	0	0	1	1
1	0	1	1	0	1	0		1	0	1	0	1	0	1	0	0
1	0	1	1	0	1	1		1	0	1	0	1	0	1	0	1
1	0	1	1	1	0	0		1	0	1	0	1	0	1	1	0
1	0	1	1	1	0	1		1	0	1	0	1	1	0	0	1
1	0	1	1	1	1	0		1	0	1	0	1	1	0	1	0
1	0	1	1	1	1	1		1	0	1	0	1	1	1	0	0
1	1	0	0	0	0	0		1	0	1	1	0	0	0	0	1
1	1	0	0	0	0	1		1	0	1	1	0	0	0	1	0
1	1	0	0	0	1	0		1	0	1	1	0	0	0	1	1
1	1	0	0	0	1	1		1	0	1	1	0	0	1	0	0
1	1	0	0	1	0	0		1	0	1	1	0	0	1	0	1
1	1	0	0	1	0	1		1	0	1	1	0	0	1	1	0
1	1	0	0	1	1	0		1	0	1	1	0	1	0	0	1
1	1	0	0	1	1	1		1	0	1	1	0	1	0	1	0
1	1	0	1	0	0	0		1	0	1	1	0	1	1	0	0
1	1	0	1	0	0	1		1	0	1	1	1	0	0	0	1
1	1	0	1	0	1	0		1	0	1	1	1	0	0	1	0
1	1	0	1	0	1	1		1	0	1	1	1	0	1	0	0
1	1	0	1	1	0	0		1	1	0	0	0	0	0	1	1
1	1	0	1	1	0	1		1	1	0	0	0	0	1	0	1
1	1	0	1	1	1	0		1	1	0	0	0	0	1	1	0
1	1	0	1	1	1	1		1	1	0	0	1	0	0	0	1
1	1	1	0	0	0	0		1	1	0	0	1	0	0	1	0
1	1	1	0	0	0	1		1	1	0	0	1	0	0	1	1
1	1	1	0	0	1	0		1	1	0	0	1	0	1	0	0
1	1	1	0	0	1	1		1	1	0	0	1	0	1	0	1
1	1	1	0	1	0	0		1	1	0	0	1	0	1	1	0
1	1	1	0	1	0	1		1	1	0	0	1	1	0	0	0
1	1	1	0	1	1	0		1	1	0	0	1	1	0	0	1
1	1	1	0	1	1	1		1	1	0	0	1	1	0	1	0
1	1	1	1	0	0	0		1	1	0	1	0	0	1	0	0
1	1	1	1	0	0	1		1	1	0	1	0	0	1	0	1
1	1	1	1	0	1	0		1	1	0	1	0	0	1	1	0
1	1	1	1	0	1	1		1	1	0	1	0	1	0	0	1
1	1	1	1	1	0	0		1	1	0	1	0	1	0	1	0
1	1	1	1	1	0	1		1	1	0	1	0	1	1	0	0
1	1	1	1	1	1	0		1	1	0	1	1	0	0	1	0
1	1	1	1	1	1	1		1	1	0	1	1	0	1	0	0

Replacement Sheet

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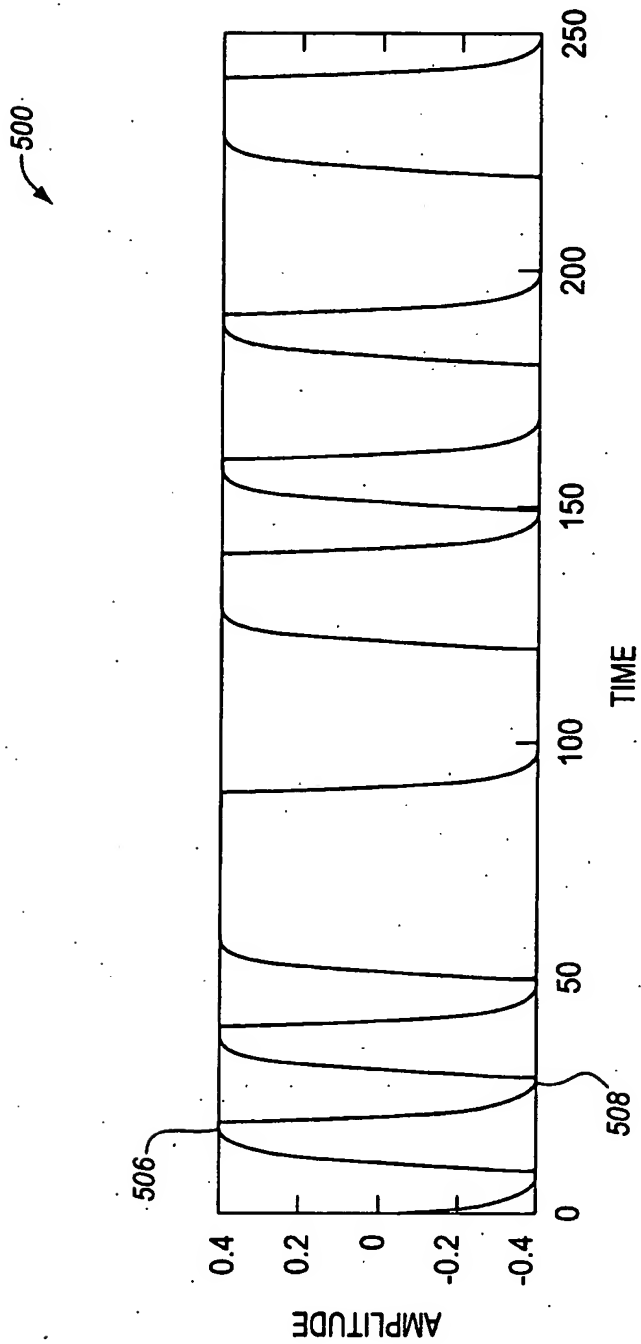


FIG. 5

Replacement Sheet

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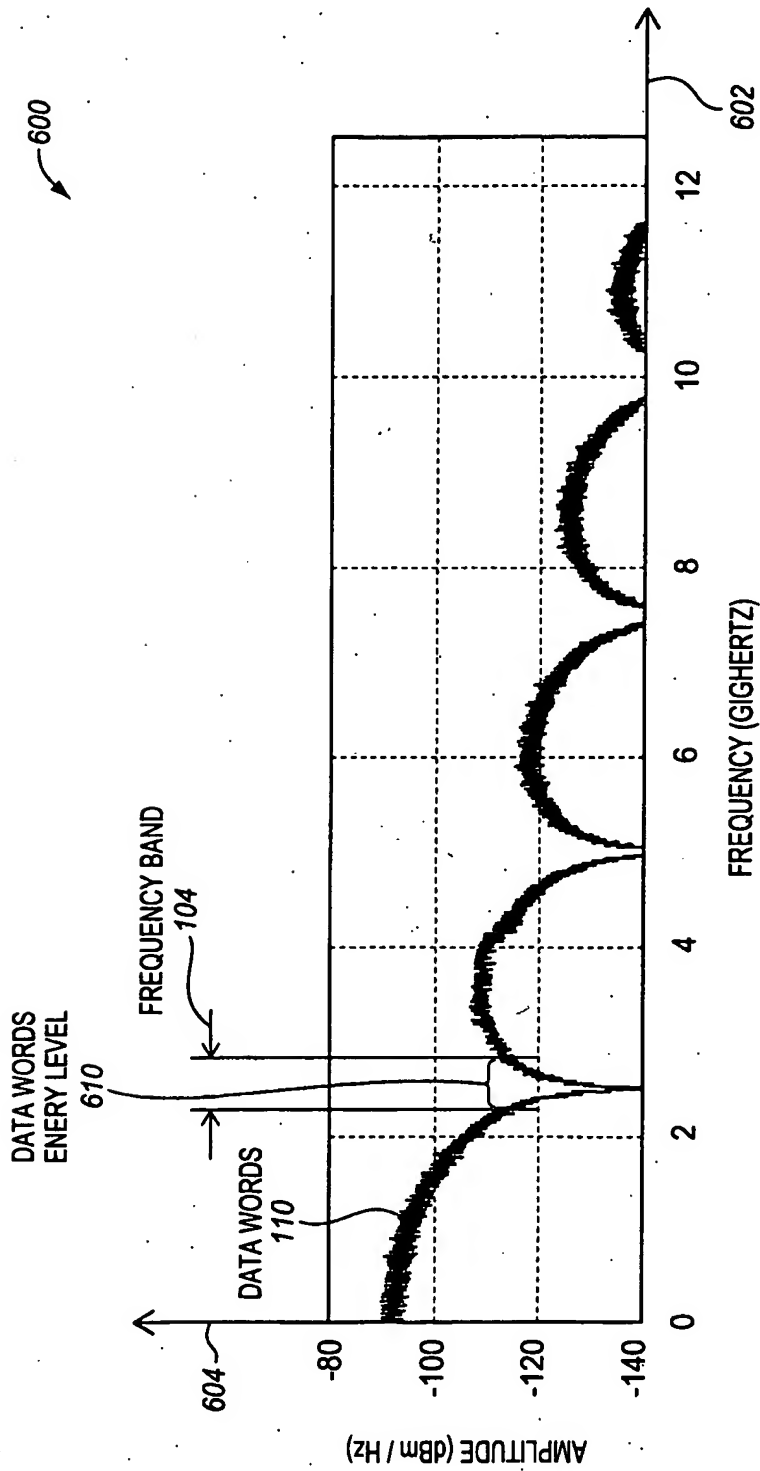


FIG. 6

Replacement Sheet

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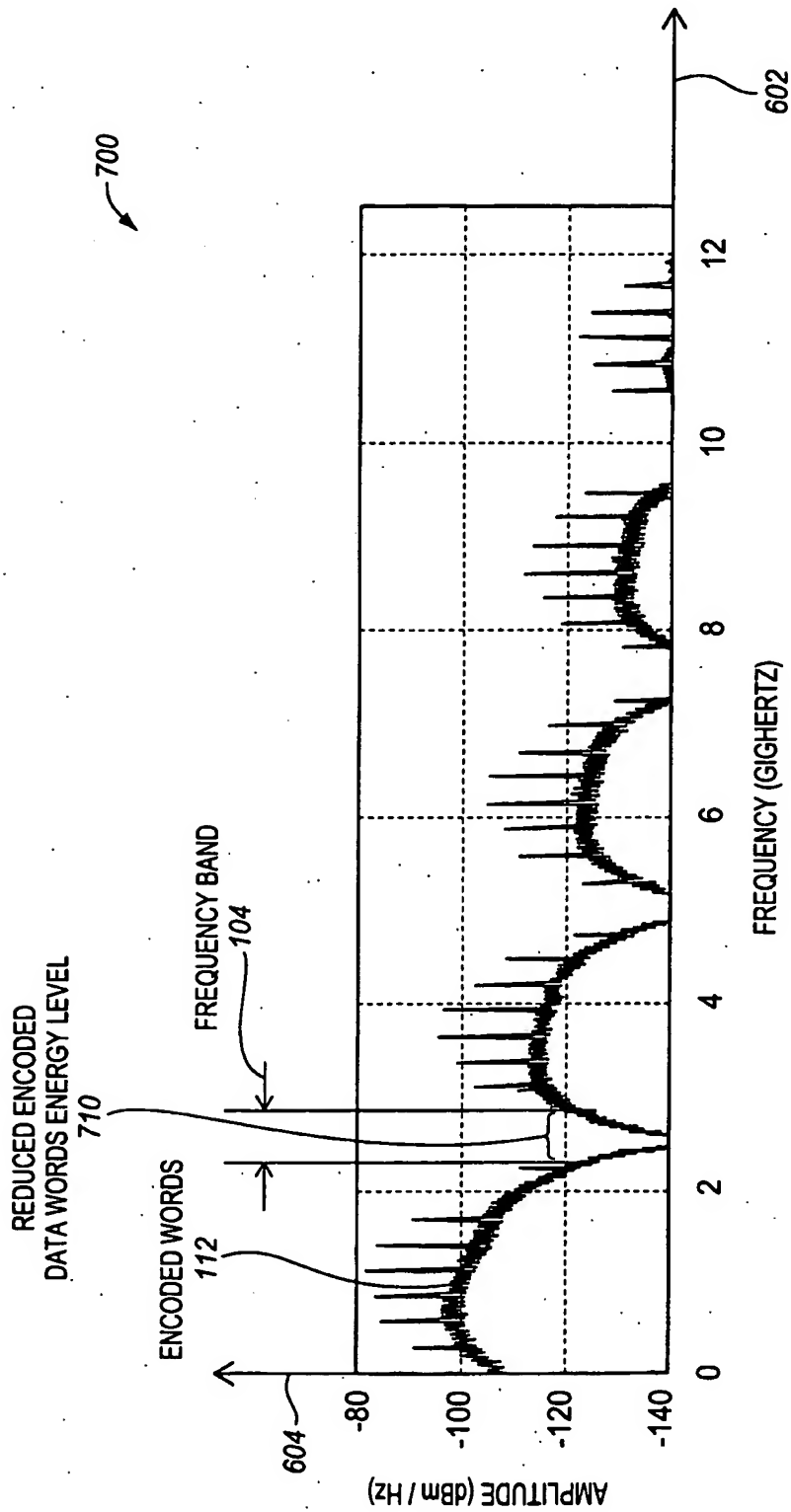


FIG. 7